

Page 1 of 1

All amounts are calculated in domestic currency.

Book Amt	
\$463.47	
\$0.00	
14.80000	
0.00000	
0.00000	
\$463.47	
0.00000	

981

B I L L O F L A D I N G

Ship From: THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 4096
Ship Date 15Aug16 at 14:13 From PFW
Probill
Via VIM TRUCK
FOB HAWKESBURY
Frnt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp HOWARD KATES (905-532-1398)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-957580- 1 Your PO # 33302
Part # Rel # -CHANTAL
STAINLESS STEEL FLAT BAR 17-4 STAINLESS
1.25" X 2.50" X 164.0000" RML

MTR

Heat Number	Tag No	Quantity	PCS	Wt LBS
248924	559529	13 ' 8.0000 "	1	146

TOTAL:	Tags	PCS	LBS
	1	1	146

Heat Number 248924 *** Chemical Analysis ***

16/8/15
Sp

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 1 BDL GW. 160 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
***** TEL. 800-926-2600 *****

* WE STOCK STAINLESS STEEL *
* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

Page: 1Continued

ALUMINIUM - LAITON - CUIVRE - PLASTIQUE - ACIER INOX
ALUMINIUM - BRASS - COPPER - PLASTICS - STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

B I L L O F L A D I N G

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THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
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B I L L O F L A D I N G

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***
THYSSENKRUPP MATERIALS NA WILL CONDUCT THEIR
INVENTORY, SEPT. 22 & 23/2016. THERE WILL BE NO
CUSTOMER PICKUPS THOSE DAYS. HOWEVER, THE SALES
OFFICE WILL REMAIN OPEN.

***UNE SURCHARGE D'ENERGIE DE \$25.00
SERA AJOUTEE A CHAQUE COMMANDE.***
***POUR VOS BESOINS D'ACIER INOXYDABLE,
CONTACTEZ-NOUS. NOUS L'AVONS! TEL. 800-926-2600

16/8/5
SV

Page: 2 Last

ALUMINIUM - LAITON - CUIVRE - PLASTIQUE - ACIER INOX
ALUMINUM - BRASS - COPPER - PLASTIC - STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.
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THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL FLAT BAR 17-4 STAINLESS
1.25" X 2.50" X 164.0000" RML
PART NO.

PO/Rel 33302 /-CHANTAL

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

Signed by:  BL PEC-004096-001 15Aug16
Pg 1/2

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

This MTR contains 2 pages (Page# 1)



Customer: COPCON PO#:PEC-261894 SO#:LDEU10

MTR#:WAFB01031.GIF

Item:FB63CA01160232 Bundle:WAC2764001 Heat#:248924

WAFB01031

WAC2764001

Walzwerke Einsal GmbH		Inspection Certificate: DIN EN 10204/3.1		Page 1	
VAT Reg. No. DE123841925		No. WZ0214-01243		of 27.02.14	
Walzwerke Einsal GmbH - Post Box 22 - 54769 Hombach-Walzenberg Schmolz+Bickenbach USA Inc. 385 Village Drive 60188-1826 Chicago Carol Stream, IL U.S.A.		Your Order No.: 01013 409/TCI L42784 - STOCK - CHICAGO		Shipment No.: VL14-01525	
Symbol of Manufacturers 		Surveyor of Inspection 			
our works No. AB13-12184	Item 00	Size 14542 Flat 89,60 x 31,75 mm 1.14 X 2.1/2 "		Weight 512 KG	
Material Number 1.4542		Standard Grade of Material X5CrNiCuNb15-4 AISI 630 17-4 PH			
Heat Number 248924		Method of melting: E			
Chemical analysis					
C %	0,023	Si %	0,44	Mn %	0,86
P %	0,018	S %	0,001	Cr %	10,20
Ni %	0,001	N %	0,022	Cu %	3,08
Nb %	0,25	Nb+Ta %	0,25	Mo %	0,1
Product Information					
Steel base: 14542 X5CrNiCuNb15-4 hot rolled, ASTM A 484/A 484 M, solution annealed Cond. A, pickled, straightened, with short lengths see below, with stamping see below, with colour marks see below, in bundles					
Additional Information					
bar length mm: 3868 - 4267 (12' - 14') short lengths: from 3050 mm (10') to max. 10 %, stamping: AISI 630 17-4 PH, colour marking: one end silver, packaging size: max. 1132 kg, 8 Spannbanderstreppung strips, quality: AISI 630 17-4 PH, additional information: WAZ mit Referenzprobe Cond. h 900, test certificate with reference specimen Cond. h 900, Stückzahl aufschreiben, Country of mill and country of manufacture: Germany in WAZ, , OFAR 252.225.7014 A: 1 HB: max. 383 , HRC: max. 38 , Delta-Fe: max. 5 %					
Requirements					
test certificate: DIN EN 10204/3.1 rev. 01/2005, tolerance of dimension/shape: ASTM A 484 rev. 2011, request of technical delivery specification: ASTM A 484 / A 484 M rev. 2010 , AMS 5043 rev. R , AMS 2303 rev. C , ASME SA 584 / SA 584 M SEC. II PART A rev. 07/2010					
Sample	PR0214-00999 Cond. A	PR0214-00900 Cond. H900			
Mechanical properties					
Rp 0,2% Mpa	1141	1311			
Rm Mpa	1230	1430			
A50%	17,6	13,7			
Z%	89,6	55,1			
Hardness					
HB	321	418			
HRC	32,8	42,1			
Structure					
Grain size	8				
Delta-Fe max.	1,0%				
Remark					
The delivery corresponds to the requirements mentioned. The certificate has been established by machine and acc. to EN 10204 It is legal without signature.			Walzwerke Einsal GmbH QA-department Feldmann / Seeger Surveyor of Inspection		
Telephone 0 23 92 3 32-0 Telefax: 0 23 62 83 21 82					

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL FLAT BAR 17-4 STAINLESS
1.25" X 2.50" X 164.0000" RML
PART NO.

PO/Rel 33302 /-CHANTAL

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-004096-001

15Aug16

Signed by:

Pg 2/2

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.




This MTR contains 2 pages (Page# 2)

Customer: COPCON PO#:PEC-261894 SO#:LDEU10

MTR#:WAFB01031-2.GIF

Item:FB63CA01160232 Bundle:WAC2764001 Heat#:248924

WAFB01031-2

Walzwerke Einsal GmbH		Inspection Certificate: Page 2	
		DIN EN 10204/2.1	
VAT Reg. No. DE123841325		No. WZ0014-01243 of 27.02.14	
Walzwerke Einsal GmbH - Post Box 20 - 66769 Neunkirchen-Walldorf		Your Order No.: D1D13-008/TCH L42754 - STDCK - CHICAGO	
Schmolz+Bickenbach USA Inc.		Shipment No.: VL14-01825	
385 Village Drive		Symbol of Manufacturer	Surveyor of Inspection
60185-1828 Chicago Carol Stream, IL			
U.S.A.			
Our works No.	Item	Size	Weight
AB13-12194	80	14542 Flat 63.50 x 51.75 mm 1.1/4 X 2.1/2"	512 KG
Material Number	Standard Grade of Material		
14542	X50NiCuNb16-4		
Heat Number	Method of melting:		
248924	E		
Remark:			
Country of melt: Germany			
Country of manufacture: Germany			
Mercury: No contamination			
Macro and micro test: Satisfactory			
Tb content: Ta < 0.01%			
Remark: Material was not repaired by welding.			
Solution annealed: 1040°C / air			

The delivery corresponds to the requirements mentioned.
The certificate has been established by machine and acc. to EN 10204 (it is legal
without signature).

Telephone 0 23 62 3 32-0 Telefax: 0 23 62 33 21 82

Walzwerke Einsal GmbH

QA-department

Feldmann / Seeger

Surveyor of Inspection

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M174B2.500 x 1.250

PO / BATCH NO.: 33302 / M135447

DATE: 16-08-19

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.250 x 2.500

QUANTITY RECEIVED: 13.8

THICKNESS RECEIVED: 1.250 x 2.500

QUANTITY INSPECTED: 13.8

SHEET SIZE ORDERED: Ø

QUANTITY REJECTED: Ø

SHEET SIZE RECEIVED: Ø

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL	Y	N	
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT MATERIAL	Y	N	
CORRECT REF # TO LINK CERT	Y	N	
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>38</u> 9-89	SIGNED OFF BY: _____		
DATE: <u>AUG 19 2016</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO33302**

Purchase Order Date 8/11/2016

PO Print Date 8/11/2016

Page Number 1 of 2

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

AUG 12 2016

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
		Customer Tax #	10127-2607
Ship To Contact		Terms	Net 30
Ship To Phone		Currency	CAD
Ship Via:	VENDOR'S TRUCK	FOB	FCA - (Free Carrier)
Ship Acct:			

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M174B2.500X1.250	17-4 SS BAR 2.500 x 1.250	8/18/2016 Yes 8/18/2016		13.80 f	\$43.85	\$605.13
MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI							
Line Total:							\$605.13
2	71401-45	PROCUREMENT QUALITY CLAUSES	8/18/2016 No 8/18/2016		1.00 Each	\$0.00	\$0.00
Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality documents							

PO Instructions: QUOTYE PEC ST-955731

Note:

8/11/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO33302**

Purchase Order Date 8/11/2016

PO Print Date 8/11/2016

Page Number 2 of 2

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA – (Free Carrier)

Line Total: \$0.00

PO Total: \$605.13

PO Instructions: QUOTYE PEC ST-955731

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 2

Change Date: 8/11/2016